

09-16-05
PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
(571) 273-2885**

or **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

28436 7590 09/06/2005

**IP CREATORS
P. O. BOX 2789
CUPERTINO, CA 95015**

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| |
|--------------------|
| (Depositor's name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/779,789 | 02/07/2001 | Behrooz Rezvani | VELCP008X1C | 7769 |

TITLE OF INVENTION: METHOD AND APPARATUS FOR CHANNEL ESTIMATION FOR X-DSL COMMUNICATIONS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | YES | \$700 | \$0 | \$700 | 12/06/2005 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS | 09/19/2005 AKELECH2 00000056 09779789 |
|------------|----------|----------------|---------------------------------------|
| AHN, SAM K | 2637 | 375-222000 | 01-FC:8001 30.00 OP |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

- 1 IP Creators
- 2 Charles C Cary
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE
Ikanos Communication, INC
Recorded: 06/18/2001
Reel/Frame: 011674/0411

(B) RESIDENCE: (CITY and STATE OR COUNTRY)
Fremont, California U.S.

09/19/2005 AKELECH2 00000055 09779789

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity **70.00 OP**

4a. The following fee(s) are enclosed:

4b. Payment of Fee(s):

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☒ Advance Order - # of Copies 10

- ☒ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge the required fee(s), or credit any overpayment Deposit Account Number 50-1338 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Charles C Cary

Typed or printed name Charles C Cary

Date September 14, 2005

Registration No. 36,764

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 14 Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



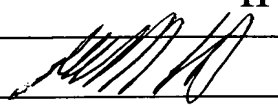
Please type plus sign (+) inside this box → ☐

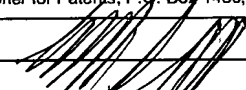
PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| | | |
|--|-------------------------------|-----------------|
| TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i> | Application Number | 09/779,789 |
| | Filing Date | 02/07/2001 |
| | First Named Inventor | Behrooz REZVANI |
| | Group Art Unit | 2637 |
| | Examiner Name | AHN, SAM K |
| Total Number of Pages in This Submission | Attorney Docket Number | VELCP008X1C |

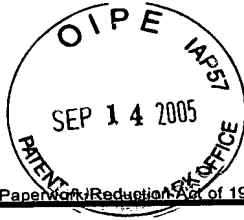
| ENCLOSURES (check all that apply) | | |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Assignment Papers # (for an Application) | <input type="checkbox"/> After Allowance Communication to Group |
| <input checked="" type="checkbox"/> Fee Attached | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment / Reply | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition # | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input checked="" type="checkbox"/> Other Endorsement(s) (please identify below): |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Terminal Disclaimer | 1-Check of \$730.00 |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Request for Refund | 2-PART B-Fee Transmittal |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input checked="" type="checkbox"/> Return Receipt Postcard | |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application | Remarks | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|---|--|
| Firm or Individual name | IP Creators |
| Signature |  Charles C. Cary Reg. #: 36,764 |
| Date | September 14, 2005 |

| CERTIFICATE OF TRANSMISSION/MAILING | | |
|---|---|--------------------------------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service in an envelope with Express mail No. EQ 045976590 US addressed to: Mail Stop ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: September 14, 2005 | | |
| Typed or printed name | Charles C. Cary | |
| Signature |  | Date September 14, 2005 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

EQ045976590US



PTO/SB/17 (10-03)

Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2005

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)

730

Complete if Known

| | |
|----------------------|-----------------|
| Application Number | 09/779,789 |
| Filing Date | 02/07/2001 |
| First Named Inventor | Behrooz REZVANI |
| Examiner Name | AHN, SAM K |
| Group Art Unit | 2637 |
| Attorney Docket No. | VELCP008X1C |

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

| | |
|------------------------|-------------|
| Deposit Account Number | 50-1338 |
| Deposit Account Name | IP Creators |

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17☒ Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:**

☒ Check ☐ Credit card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity Fee Code | Small Entity Fee Code | Fee Description | Fee Paid |
|-----------------------|-----------------------|------------------------|----------|
| 1001 750 | 2001 375 | Utility filing fee | |
| 1002 330 | 2002 165 | Design filing fee | |
| 1003 520 | 2003 260 | Plant filing fee | |
| 1004 750 | 2004 375 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |

SUBTOTAL (1) (\$)

0

2. EXTRA CLAIM FEES

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|---------------------------|--------------|----------------|----------|
| Independent Claims | -20 = -20 | X | \$0 |
| Multiple Dependent Claims | -3 = -3 | X | \$44 |
| | | | \$0 |

| Large Entity Fee Code | Small Entity Fee Code | Fee Description |
|-----------------------|-----------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 84 | 2201 42 | Independent claims in excess of 3 |
| 1203 280 | 2203 140 | Multiple dependent claim, if not paid |
| 1204 84 | 2204 42 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$)

0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| Large Entity Fee Code | Small Entity Fee Code | Fee Description | Fee Paid |
|-----------------------|--------------------------------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | \$0 |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | \$0 |
| 1053 130 | 1053 130 | Non-English specification | \$0 |
| 1812 2,520 | 1812 2,520 | For filing a request for <i>ex parte</i> reexamination | \$0 |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | \$0 |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | \$0 |
| 1251 110 | 2251 55 | Extension for reply within first month | \$0 |
| 1252 410 | 2252 205 | Extension for reply within second month | \$0 |
| 1253 930 | 2253 465 | Extension for reply within third month | \$0 |
| 1254 1,450 | 2254 725 | Extension for reply within fourth month | \$0 |
| 1255 1,970 | 2255 985 | Extension for reply within fifth month | \$0 |
| 1401 320 | 2401 160 | Notice of Appeal | \$0 |
| 1402 320 | 2402 160 | Filing a brief in support of an appeal | \$0 |
| 1403 280 | 2403 140 | Request for oral hearing | \$0 |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | \$0 |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | \$0 |
| 1453 1,300 | 2453 650 | Petition to revive - unintentional | \$700 |
| 1501 1,300 | 2501 650 | Utility issue fee (or reissue) | \$0 |
| 1502 470 | 2502 235 | Design issue fee | \$0 |
| 1503 630 | 2503 315 | Plant issue fee | \$0 |
| 1504 300 | | Pfublication Fee | \$0 |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | \$0 |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | \$0 |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | \$0 |
| 1809 750 | 2809 375 | Filing a submission after final rejection (37 CFR § 1.129(a)) | \$0 |
| 1810 750 | 2810 375 | For each additional invention to be examined (37 CFR § 1.129(b)) | \$0 |
| 1801 750 | 2801 375 | Request for Continued Examination (RCE) | \$0 |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | \$0 |
| Other fee (specify) | 10 Printed copies of Patent @ \$3.00 | | \$30 |

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

730

SUBMITTED BY

| | | | | | |
|-------------------|-----------------|-----------------------------------|--------------|-----------|----------------|
| Name (Print/Type) | Charles C. Cary | Registration No. (Attorney/Agent) | 36,764 | Telephone | (408) 850-9585 |
| Signature | | Date | Sep 14, 2005 | | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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